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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/665,459	09/18/2003	Yasuhide Yoshida	03573C/HG	6829
1933	7590 02/23/2005		EXAMINER	
	F, HOLTZ, GOODMA	CHEN, VIVIAN		
767 THIRD AVENUE 25TH FLOOR		ART UNIT	PAPER NUMBER	
NEW YORK, NY 10017-2023			1773	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/665,459	YOSHIDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vivian Chen	1773				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>03 D</u>	ecember 2004.					
<u> </u>						
·— ···	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-49 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 23 and 24 is/are allowed. 6) Claim(s) 1-12,21,22,25-31 and 38-43 is/are rejected. 7) Claim(s) 13-20,32-39 and 44-49 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) ☒ Acknowledgment is made of a claim for foreign a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☒ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal P					
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claim Objections

1. The objection to claims 22-24, 28, 31, 34, 37, 41, 43, 46, 49 under 37 CFR 1.75(c) has been withdrawn in view of Applicant's amendment filed 12/3/2004.

Claim Rejections - 35 USC § 112

2. The rejections under 35 U.S.C. 112, second paragraph, has been withdrawn in view of Applicant's amendment filed 12/3/2004.

Claim Rejections - 35 USC § 103

1. Claims 1-12, 21-22, 25-31, 38-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over JAPANESE PATENT APPLICATION 2001-353814 (hereinafter JP '814).

JP '814 discloses a film comprising a first polyester layer and a second polyester layer usable in non-stretched form, and metal sheets coated thereby, wherein the first polyester layer contains thermoplastic polyester blended with 1-25% of a polyolefin ionomer modified with 1-20 mol% of carboxylic acid groups, wherein the ionomer is present in the polyester in particle sizes of 5 microns and less; wherein the polyester comprises polyethylene terephthalate / isophthalate copolyesters, wherein isophthalate units present in typical amounts up to 20 mol% and diol comonomers such as butanediol in typical amounts of up to 20 mol%. The film can be extrusion coated onto a metal sheet, wherein the polyester film optionally contains conventional additives such as antioxidants and titanium oxide pigment. A film comprising the first polyester layer has

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a typical thickness of 35-40 microns, and the second film layer has a typical thickness of 6 microns. The metal substrate is optionally preheated prior to application of a preformed adhesive film layer or application of a coextruded film comprising the adhesive layer and the polyester layer. (entire document, especially paragraphs 0009, 0017-0023, 0031, 0036-0038, 0043-0044)

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate carboxyl-modified polyolefin into the first film layer of JP '814 in order to improve the impact resistance. It also would have been obvious to use effective amounts of performance-enhancing additives (claims 6-8, 12). It is conventional in the art to use T-dies (claim 21-22) to extrude polyester films. Since the prior art film can be used in non-stretched form, the Examiner has reason to believe that first polyester layer disclosed in JP '814 has plane orientation coefficient values comparable to those recited in claim 27, therefore the Examiner has basis for shifting the burden of proof to applicant as in In re Fitzgerald et al., 205 USPQ 594. One of ordinary skill in the art would have selected the melt extrusion temperature of the adhesive layer (claim 38-43) depending on the specific rheological properties desired for specific coating or laminating equipment and polymer compositions.

2. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over # as applied to claims 1, 25 above, and further in view of OKAMURA ET AL (US 5,585,177).

OKAMURA ET AL discloses that it is well known in the art to use chromate-treated metal sheets as recited in claim 26 as substrates for polymeric film coated metal laminates in order to improve interlayer adhesion. (line 40, col. 6 to line 20, col. 7)

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use chromate-treated metal sheets in the laminates of YABE ET AL in order to improve adhesion between the polyester film and the metal substrate.

Response to Arguments

3. The rejection under 35 U.S.C. 103(a) based on YABE ET AL have been withdrawn in view of Applicant's arguments filed 12/3/2004, in view of the showing in the specification in regard to criticality and improved properties from the recited particle size and content, and carboxylic acid group content of the modified polyolefin, etc.

Allowable Subject Matter

- 4. Claims 23-24 are allowed.
- 5. Claims 13-20, 32-39, 44-49 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to disclose multilayer films comprising the recited polyester layer containing a carboxylic acid-modified polyolefin having a specified particle size and further comprising a carboxylic acid-modified polyolefin layer (claims 13, 17, 23, 24), in view of

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the showing in the specification in regard to criticality and improved properties from the recited particle size and content, and carboxylic acid group content of the modified polyolefin, etc.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivian Chen whose telephone number is (571) 272-1506. The examiner can normally be reached on Monday through Thursday from 8:30 AM to 6 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones, can be reached on (571) 272-1516. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

The General Information telephone number for Technology Center 1700 is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 18, 2004

Vivian Chen Primary Examiner Art Unit 1773